

CLAIM SUMMARY DOCUMENT

*The following listing of claims is submitted pursuant to 37 C.F.R. § 1.173
showing the status and separately, the **SUPPORT FOR CLAIM CHANGES.***

1. (Amended patent claim) An apparatus for cutting and stirring curd, comprising a curd vat with a shaft drivable for rotation, which shaft carries a number of cutting frames extending radially from the shaft and arranged on the shaft in staggered relation, each cutting frame having two frame girders, which extend radially from the drivable shaft and between which a lattice work is situated formed from longitudinal knives and transverse knives, the transverse knives being mounted on the frame girders [by welding] wherein the transverse knives have openings which are in line, in which the longitudinal knives are received, while means are provided for substantially preventing displacement of the longitudinal knives in the longitudinal direction and wherein the longitudinal knives have a smaller cross section than the size of the openings, the longitudinal knives being loosely disposed in the openings with a relatively large play [at least a number of said opening are of essentially circular or oval shape].

2. (Pending patent claim) An apparatus as claimed in claim 1, wherein at least a number of said openings are of diamond shape.

3. (Pending patent claim) An apparatus as claimed in claim 1, wherein at least a number of transverse knives, viewed in cross-section have a bent shape.

4. (Amended patent claim) An apparatus as claimed in claim 1, wherein the means for preventing displacement of the longitudinal knives comprise a transverse knife which is secured to both frame girders and which is connected to the longitudinal knives [through welding].

5. (Pending patent claim) An apparatus as claimed in claim 4, wherein said transverse knife has a bent shape in cross-section.

6. (Pending patent claim) An apparatus as claimed in claim 1, wherein the longitudinal knives include a number of U-shapes bent strip like knives, the legs of said U-shaped knives being inserted in adjacent openings of the transverse knives.

7. (New) A cutting frame comprising: a pair of parallel girders, the girders being spaced apart and having a plurality of transverse knives extending transversely between the girders and secured to the girders, the transverse knives having a cutting edge extending transversely of the girders and the transverse knives having a plurality of openings, the openings in one of the transverse knives being aligned with openings in adjacent transverse knives, the longitudinal knives each having a longitudinal cutting edge, the longitudinal knives extending through

the openings in the transverse knives, the openings being larger than the cross section of the longitudinal knives, the longitudinal knives having means for preventing the longitudinal knives from longitudinal movement relative to the transverse knives.

8. (New) The cutting frame according to claim 7 wherein the longitudinal knives have openings, and wherein the girders have openings aligned with the openings in the longitudinal knives, and including a fixing pin extending through the longitudinal knives openings and through the girder openings that are aligned with the longitudinal knives openings.

9. (New) The cutting frame according to claim 8 wherein the cross section of the openings in the longitudinal knives is sufficiently greater than the cross-sections of the fixing pin to provide space in the openings around the fixing pin.

10. (New) A cutting frame comprising: a pair of parallel girders, the girders being spaced apart and having a plurality of transverse knives extending transversely between the girders and secured to the girders, the transverse knives having a cutting edge extending transversely of the girders and the transverse knives having a plurality of openings, the openings in one of the transverse knives being aligned with openings in adjacent transverse knives, the longitudinal knives extending through the openings in the transverse knives, the longitudinal knives

being loosely disposed in the openings with a relatively large play, and means for securing the longitudinal knives from longitudinal displacement relative to the transverse knives.

11. (New) The cutting frame according to claim 10 wherein the longitudinal knives have a leading side having a longitudinal cutting edge and a trailing edge, and the openings having a size greater than the cross-section of the longitudinal knives, the openings having recesses aligned with the longitudinal knives and having the leading and trailing edges received in the recesses.

12. (New) A cutting frame comprising:
a pair of girders, said girders being spaced apart from each other and having a plurality of transverse knives extending between the girders, means for securing the transverse knives to the girders,

a plurality of longitudinal knives arranged in substantially parallel relation to the girders and being spaced apart from each other, the longitudinal knives being secured against longitudinal displacement relative to the girders,

the transverse knives having a plurality of openings in alignment with the longitudinal knives and through which the longitudinal knives pass, the longitudinal knives being arranged in pairs, and an extension element being secured to the longitudinal knives at the opposite ends of the longitudinal knives, the extension element joining pairs of the longitudinal knives.

13. (New) The cutting frame according to claim 12, wherein the extension element has a "U" shape.

14. (New) The cutting frame according to claim 13 wherein the extension element extends at least to the middle of the cutting frame, and including a fixing pin extending through the extension element and an adjacent longitudinal knife for securing the extension element.

15. (New) An apparatus as claimed in claim 1 wherein at least a number of the openings are essentially circular.

16. (New) An apparatus as claimed in claim 1 wherein at least a number of the openings are oval shape.